



BioAg

Solid Fertilisers

For immediate and continuous
long-term nutrient supply to pastures



BioAgPhos®
Reactive Phosphate Rock

For immediate and continuous long-term nutrient supply to pastures



Enhance pasture productivity with stable, biologically available Phosphorus

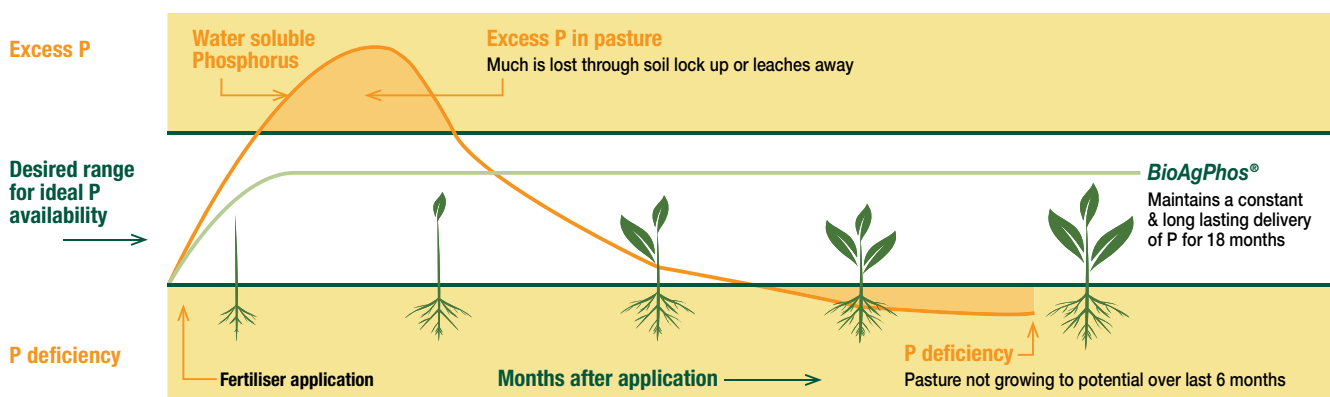
BioAgPhos® is a biologically activated Reactive Phosphate Rock (RPR) that provides a consistent, long-term source of Phosphorus ideally suited for grazing systems.

Unlike conventional water-soluble P fertilisers such as MAP, DAP or SSP—which dissolve rapidly and are prone to fixation and leaching—**BioAgPhos** gradually becomes plant-available through microbial and root-mediated solubilisation. This steady availability aligns with pasture nutrient demand throughout the year, rather than peaking shortly after application.

With 13% elemental Phosphorus and 35% calcium, **BioAgPhos** not only improves pasture vigour but also contributes to soil pH buffering and enhanced calcium-to-magnesium ratios, supporting soil structure and livestock mineral nutrition. One tonne of **BioAgPhos** has the same effect on the soil as half a tonne of high grade lime.

P availability – “non-water solubility doesn’t mean non-plant availability”

Phosphorus availability – Water soluble phosphates vs. **BioAgPhos®**



Optimise soil functionality through biologically mediated P cycling

P in soil exists in both organic and inorganic forms, often bound in unavailable complexes.

BioAgPhos supports natural P cycling by feeding and activating phosphate-solubilising microbes and enhancing root exudate production, including weak organic acids and phosphatase enzymes. These biological agents are key to releasing P from locked forms, especially in neutral to alkaline soils where synthetic fertilisers typically underperform.

In well-managed pastures with good organic matter and microbial diversity, rhizosphere pH remains favourable for nutrient uptake—making **BioAgPhos** effective across a wide range of soil types, including those traditionally deemed antagonistic.



“We’ve used **BioAgPhos** for 20 years, not just for the great results we get, but to be more sustainable. When my days here are finished, I want to know the farm is healthier than when I started – we are achieving that.”

– Frank Kelly, Dairy Farmer, Tragowel Vic

BioAgPhos® is proven by science and confirmed in the paddock!

Sustainable, low-input Phosphorus strategy for livestock enterprises

For livestock farmers seeking to build capital P in the soil without compromising biological health, **BioAgPhos** offers a reliable and environmentally responsible option. With a lower carbon footprint than traditional fertilisers, its non-water-soluble nature eliminates risk of runoff and eutrophication, making it safe near sensitive waterways.

As a natural, non-acidulated product with a low heavy metal content (well below industry standards) it outperforms synthetic P fertilisers in both sustainability and longevity. P is immobile in soil and concentration is important to crop accessibility. **BioAgPhos** with its fine particle sizing (<500 microns for 96% of the product) ensures even distribution and better contact with the soil matrix.

Applied biennially using standard belt spreaders, it integrates seamlessly with other ameliorants such as lime, gypsum or compost in a single pass. This reduces time and application costs, and establishes a good soil P level, reducing the reliance on synthetic soluble P fertilisers.

Improve input efficiency and preserve soil biology

Studies confirm that 50% or more of synthetic P applied in grazing systems is rapidly fixed in the soil and becomes unavailable in the short term. This not only wastes input costs but also diminishes microbial populations responsible for natural P cycling.

BioAgPhos, enhanced with a proprietary biological digester, primes the Reactive Phosphate Rock (RPR) surface for faster microbial action while supplying metabolites that feed soil biology. When used in conjunction with water-soluble P in deficient soils, **BioAgPhos** reduces reliance on synthetic inputs over time.

With over 20 years of field-proven performance in Australia, **BioAgPhos** is helping livestock producers build resilient, productive pastures season after season.



Customised Blends

BioAg offers customised blends with **BioAgPhos** as a base component that can have other nutrients and/or trace elements added.

BioAgPhos can be applied on farm with other ameliorates in one pass (lime, gypsum, compost).



Visit our website or contact your local Area Manager for more information.

Product Highlights

- You don't need forecast rain to apply.
- Doesn't need to be applied annually. It can be applied every second year.
- Can be applied at any time of the year.
- Reduces reliance on repeated synthetic applications and builds fertility that endures beyond a single crop cycle.
- **BioAgPhos** is the only Australian product using highly reactive phosphate rock on the market.
- Productivity and profitability combined with improved soil performance.

Application Rates

The principals of a balanced soil are paramount, the goal is getting the chemistry, structure and biology in balance to make sure the crop or pasture realises its full potential. General application rates are between 200–500kg/ha.

The individual paddock requirements are considered, including history and soil type, along with soil test results. A farmer's yield, quality goals, and budget are also required to make a sound recommendation.

BioAg can tailor programs that are suitable for both conventional and organic farming systems and may include products from the BioAg range of biostimulants.



Imported from Algeria, this natural sedimentary rock has been specifically selected for its reactivity.

BioAgPhos® is the only highly reactive rock phosphate available in Australia.



BioAg Pty Ltd is an Australian owned and operated manufacturer of liquid biostimulants and importer of Reactive Phosphate Rock fertilisers. The company has been in business for over 25 years with the head office and modern liquid production facility in Narrandera and a solid fertiliser site in Geelong. BioAg products are scientifically proven to provide yield responses in conventional and all other farming systems. A dedicated team of Area Managers / Agronomists provide full field technical support to farmers and the reseller network.

Your local BioAg Area Managers are always available to discuss how BioAg's products and programs can improve your farming system or put you in contact with our distributor network.

The BioAg Range of Solid Fertilisers

Certified for use in organic systems

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BioAgPhos[#]

Highly reactive phosphate fertiliser made from high-grade reactive phosphate rock combined with BioAg's microbial digesting agent.

S10 BioAgPhos[#]

Incorporates elemental sulphur in the form of sulphur bentonite for a steady and longer S supply. Ideal for higher rainfall and higher leaching environments.

MagPhos[#]

Incorporates dolomite in **BioAgPhos**. Ideal for soils that need phosphorus, sulphur, calcium, and magnesium, such as pastures and grazing systems where there is a risk of grass tetany.

BioAg Superb[#]

Incorporates calcium sulphate in the form of gypsum into **BioAgPhos**. Ideal for soils that need phosphorus, sulphur, and calcium, such as pastures and grazing, and for crops requiring extra sulphur, such as canola.

Pasture Primo[#]

Provides a rich source of calcium and phosphorus through a blend of **BioAgPhos** and lime.

BioAgSoP[#]

Organically certified granular form of fertiliser containing potassium and sulphur. Immediately available to crops and plants. Ideal for crops with a high potassium demand and sensitive to chloride.

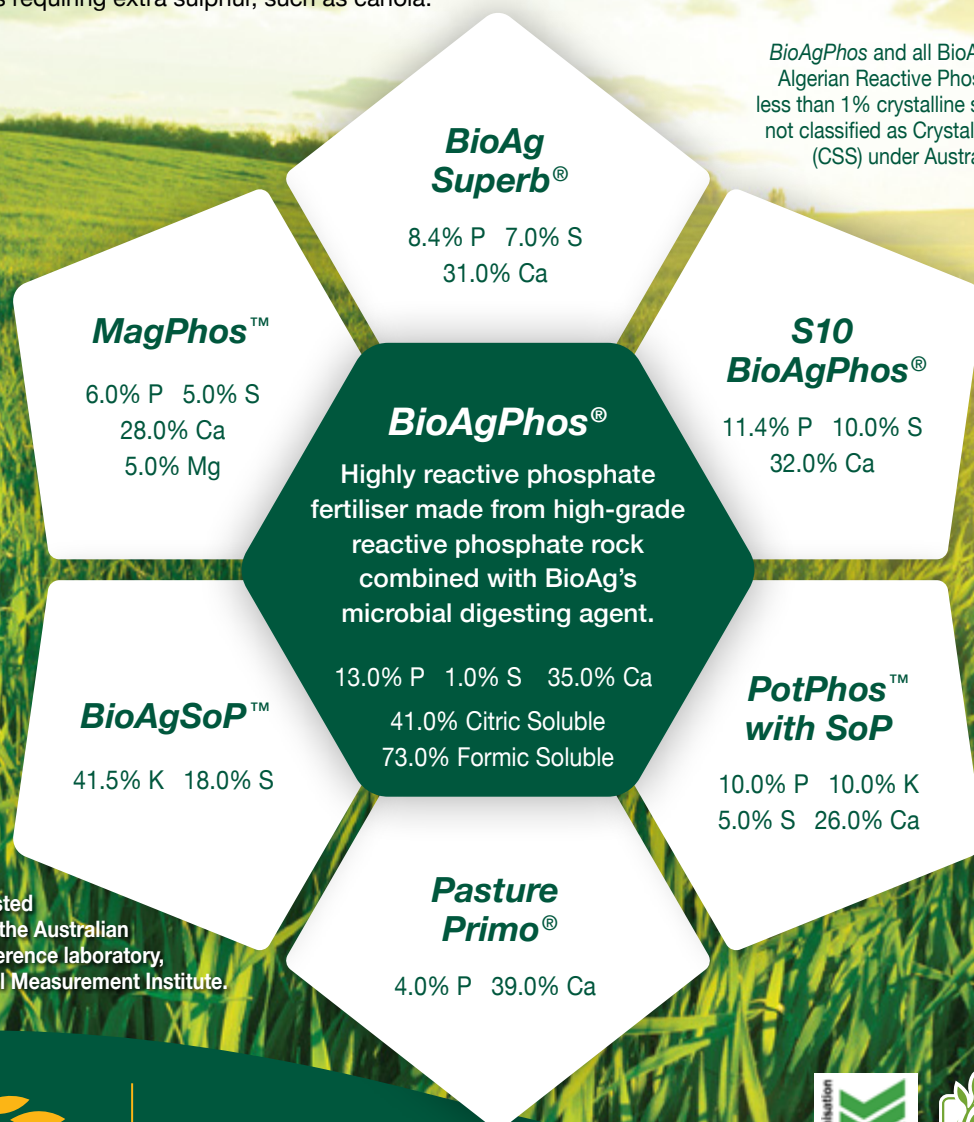
PotPhos with SoP[#]

Incorporates **BioAgSoP** and **BioAgPhos** in a blend ideal for soils that need phosphorus, sulphur, and calcium, such as hay and and grazing pasture.

BioAgBor[#]

An immediate and sustained release form of boron suited to a range of enterprises such as horticulture, vegetables, pastures and field crops.

BioAgPhos and all BioAg products based on Algerian Reactive Phosphate Rock contain less than 1% crystalline silica, and therefore are not classified as Crystalline Silica Substances (CSS) under Australian regulations.



Phosphorus bio-availability tested independently by the Australian Government's reference laboratory, NMI – the National Measurement Institute.



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Better soils. Better crops. Better stock.

BioAg is Australian-owned and operated and has been manufacturing liquid biostimulants and natural phosphate fertilisers since 1999.